DaimlerChrysler AG

Abstract

A semitrailer train comprising a towing vehicle (2), a 5 semitrailer (3) and a fifthwheel (4) which has coupling part (5) which is assigned to the towing vehicle (2) and a coupling part (5) which is assigned semitrailer (3) which have the to the purpose the towing 10 forming a mechanical connection between vehicle (2) and semitrailer (3), a control device (10) for controlling components (9) of the semitrailer (3) being provided in the towing vehicle (2) and semitrailer (3) having data lines (17) for transmitting 15 the control data and power supply lines (16)supplying power to the components (9), the coupling part which is assigned to the towing vehicle (2) being a fifthwheel pickup plate (5) and the coupling part which is assigned to the semitrailer (3) being embodied 20 as a kingpin (6) which matches said coupling part. An alternating voltage generator for generating a carrier signal is provided in the towing vehicle (2), a signal modulator modulates the control data onto the carrier signal, and a transformer coil (7) is arranged in the 25 fifthwheel pickup plate (5) of the towing vehicle (2) the carrier signal with in order to transmit control data modulated onto it to a transformer coil region of the kingpin (6) (7, 8) in the semitrailer (3), a demodulator (15) in the semitrailer 30 (3) separating the total signal transmitted inductive coupling into an energy-carrying power supply voltage and the control data, and the power supply voltage being provided for supplying power component (9) in the semitrailer (3).